

# Gahanna Division of Police

Jeffrey B. Spence, Chief of Police



## Field Services Subdivision

## Traffic Survey

## Fleetrun Avenue 04-15-21 to 04-30-21

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460 Rocky Fork Blvd.

Gahanna, Ohio 43230

614-342-4240

[WWW.GAHANNA.GOV](http://WWW.GAHANNA.GOV)

**Survey Device:** Speed Monitoring and Notification Device (SMND) # 1129

**Survey Operator:** Lt. Ethan Moffitt # L-58

**Device Location:** Fleetrune Avenue at Landover Road

**Device Direction:** Facing westbound (facing traffic coming from Caroway Blvd//Ronson Avenue)

**Speed Limit:** 25 MPH

**Survey Dates:** 04-15-21 to 04-30-21

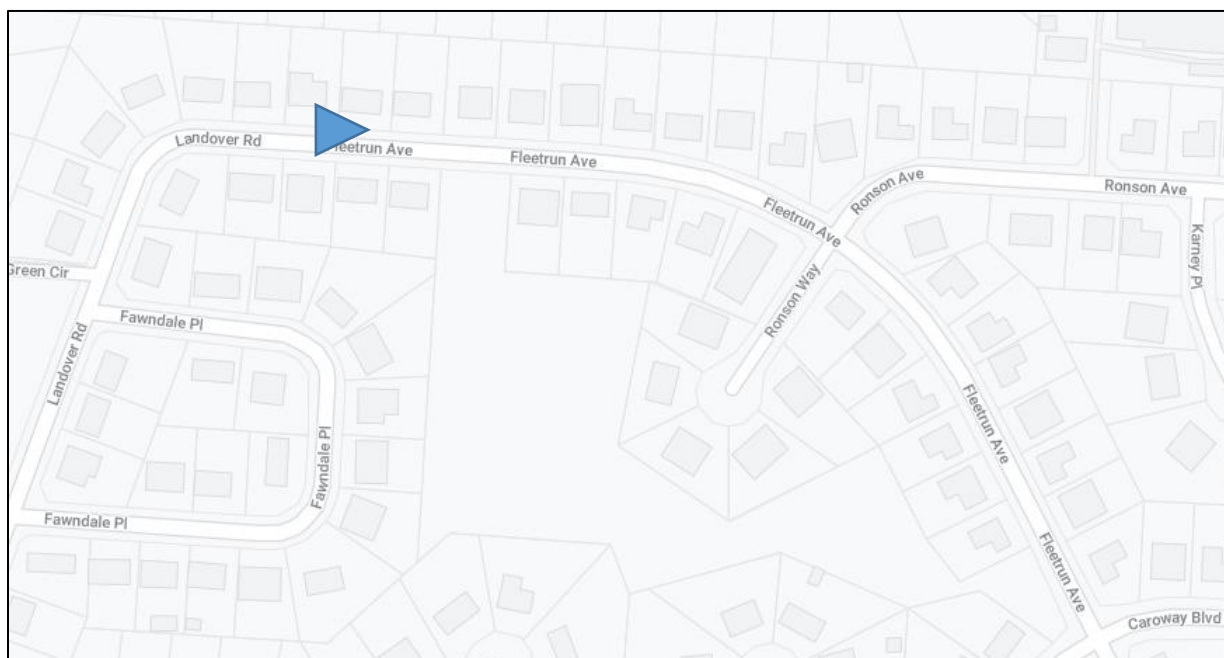
**Survey Reason:** Community complaints of speeding vehicles

### Summary –

On 04-15-21, SMND # 1129 was deployed on Fleetrune Avenue, a location associated with previous community reports of excessive speed. At this location there is a downhill portion of the roadway through which westbound traffic commonly accelerates through, as they gain downhill momentum, before entering a curved portion of the road. The device was deployed in order to provide a continuous speed mitigation presence.

The SMND successfully recorded the speed of 13,648 vehicles (combined eastbound and westbound traffic). Of those, 2,595 or just over 19%, were traveling in excess of the posted speed limit and 11,053, or almost 81%, were traveling below the speed limit. The average speed was just over 20 MPH. The 85th percentile speed was 26 MPH, meaning that 85% of the vehicles were traveling at a speed of 26 MPH or less. One hundred and ninety-nine vehicles were traveling in excess of 35 MPH, accounting for less than 1.5% of the total count (13,648) and 7.6% of the over-limit count (2,595). Conversely, more than 99% of vehicles traveling above the speed limit were going between 26 and 35 MPH.

The survey results demonstrate that the presence of the SMND was an effective mitigation measure. There was substantial compliance with the posted speed limit during the deployment period and few excessive speed violations.

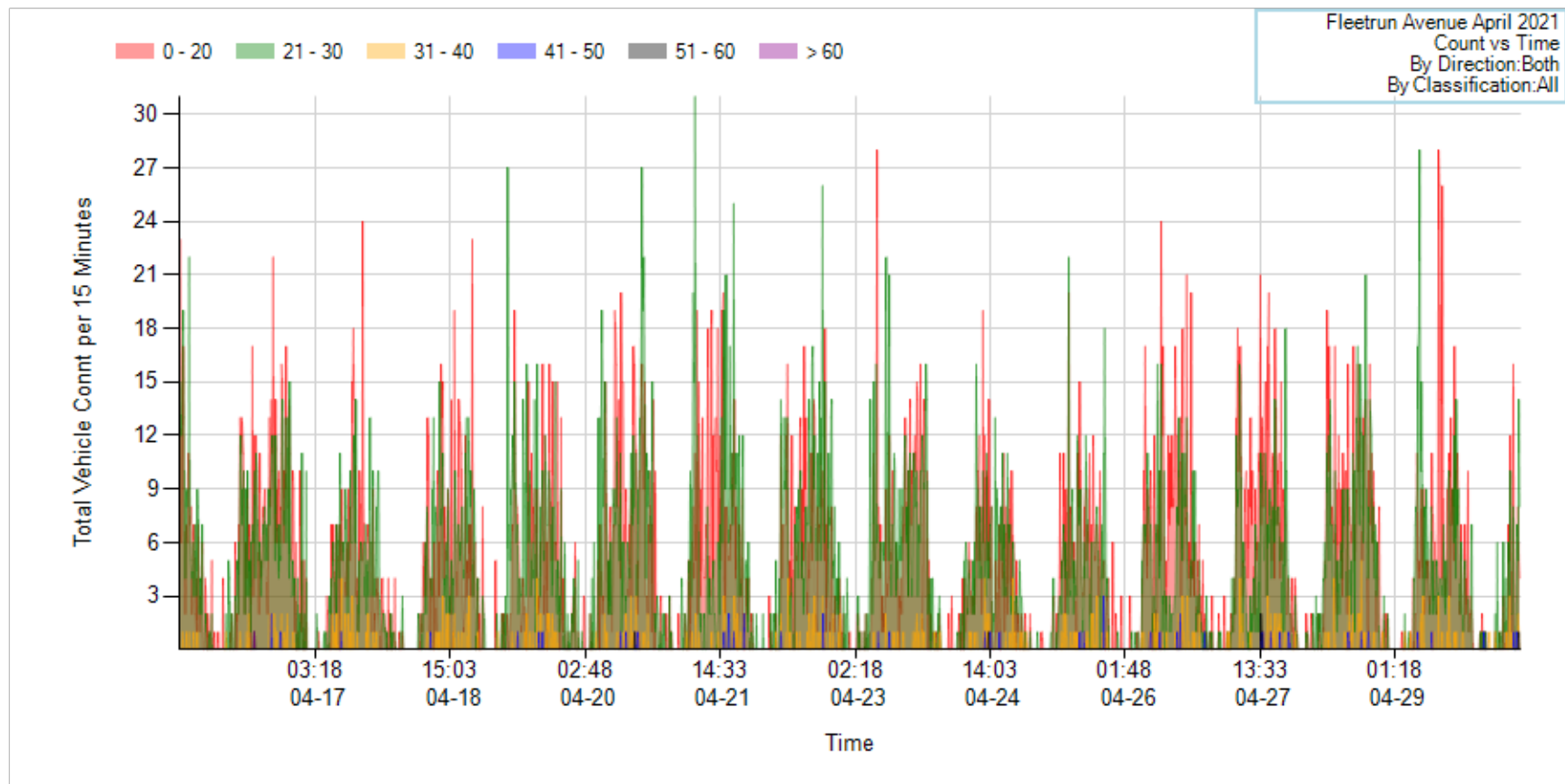




# GAHANNA DIVISION OF POLICE FLEETRAN AVENUE APRIL 2021 SPEED SURVEY



Count vs. Time by Speed



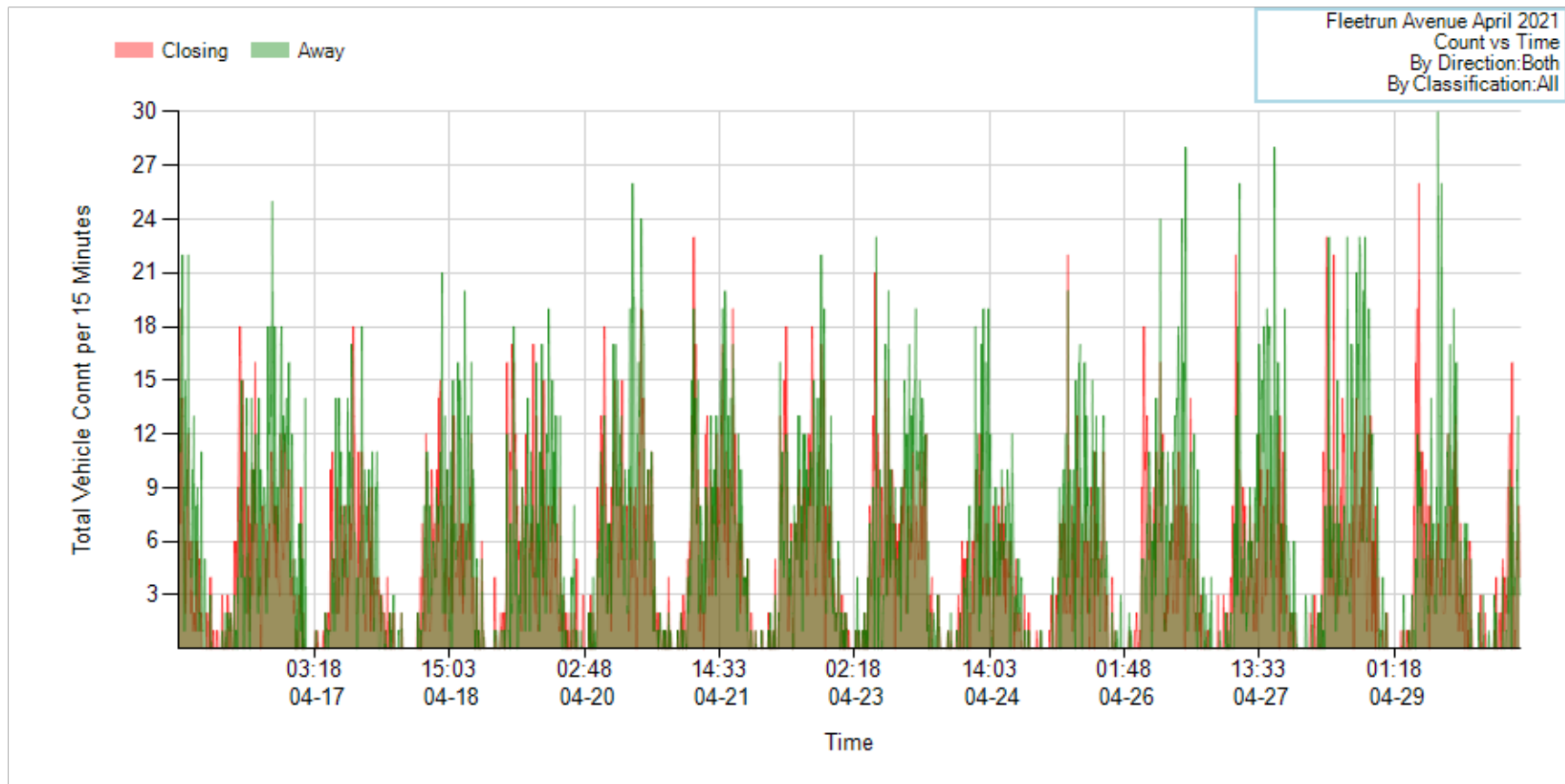
Survey Name	Fleetrans Avenue April 20	Speed Unit	Miles/Hour	Average Speed	20.2	MPH	Total Volume	13648	100%
Start Date	2021-04-15	Speed Limit	25	Max Speed	62	MPH	Over Limit Count	2595	19.0%
Stop Date	2021-04-30			Min Speed	10	MPH	Under Limit Count	11053	81.0%
				85th Percentile	26	MPH	Over Threshold Count	199	1%
				10 MPH Pace	16 - 25	MPH	In Pace Count	6742	49.4%



# GAHANNA DIVISION OF POLICE FLEETRAN AVENUE APRIL 2021 SPEED SURVEY



Count vs. Time by Direction



Survey Name	Fleetrان Avenue April 20	Speed Unit	Miles/Hour	Average Speed	20.2	MPH	Total Volume	13655	100%
Start Date	2021-04-15	Speed Limit	25	Max Speed	62	MPH	Over Limit Count	2595	19.0%
Stop Date	2021-04-30			Min Speed	10	MPH	Under Limit Count	11060	81.0%
				85th Percentile	26	MPH	Over Threshold Count	199	1%
				10 MPH Pace	16 - 25	MPH	In Pace Count	6747	49.4%

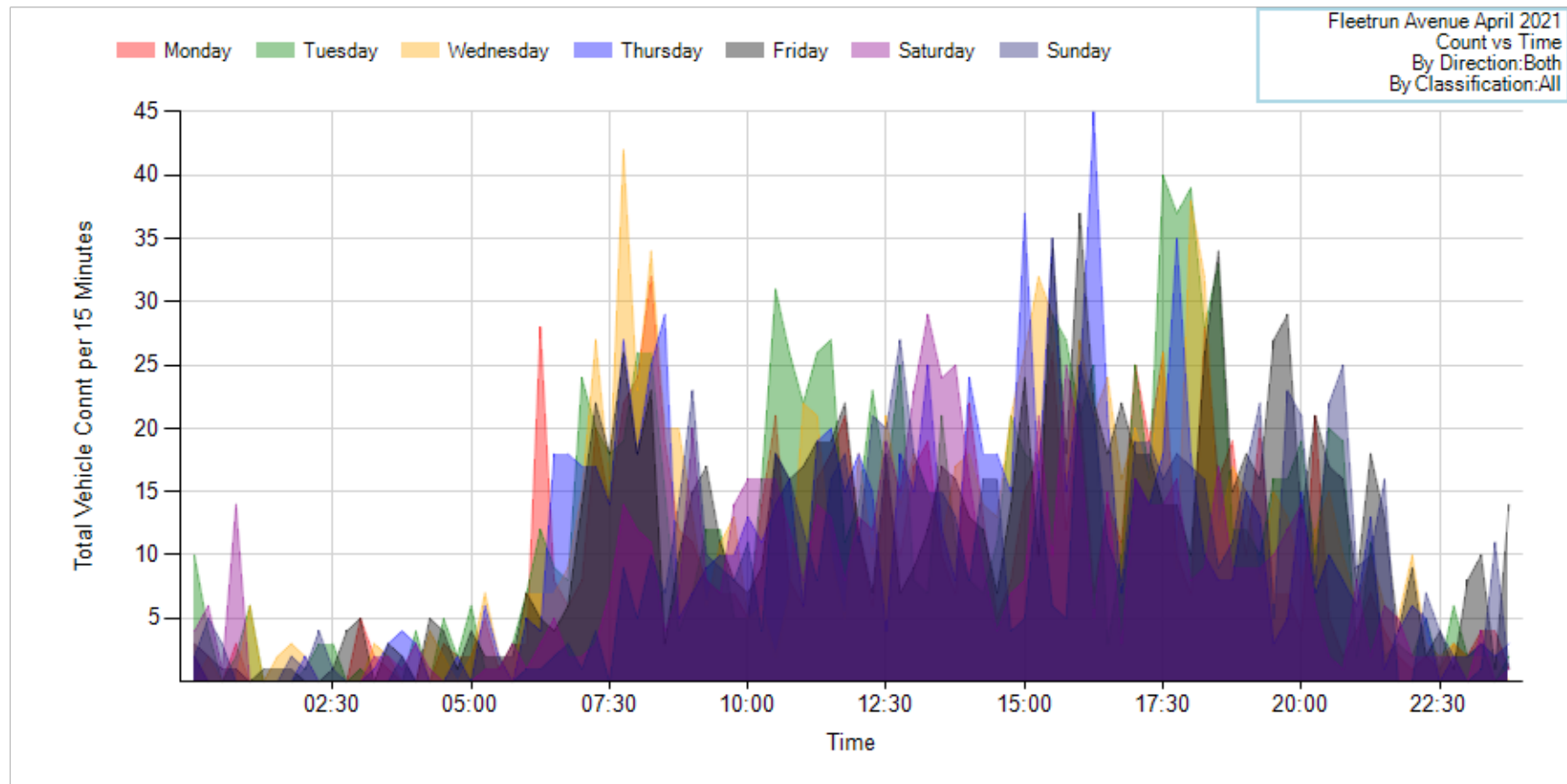




# GAHANNA DIVISION OF POLICE FLEETRAN AVENUE APRIL 2021 SPEED SURVEY



Weekly Count vs. Time



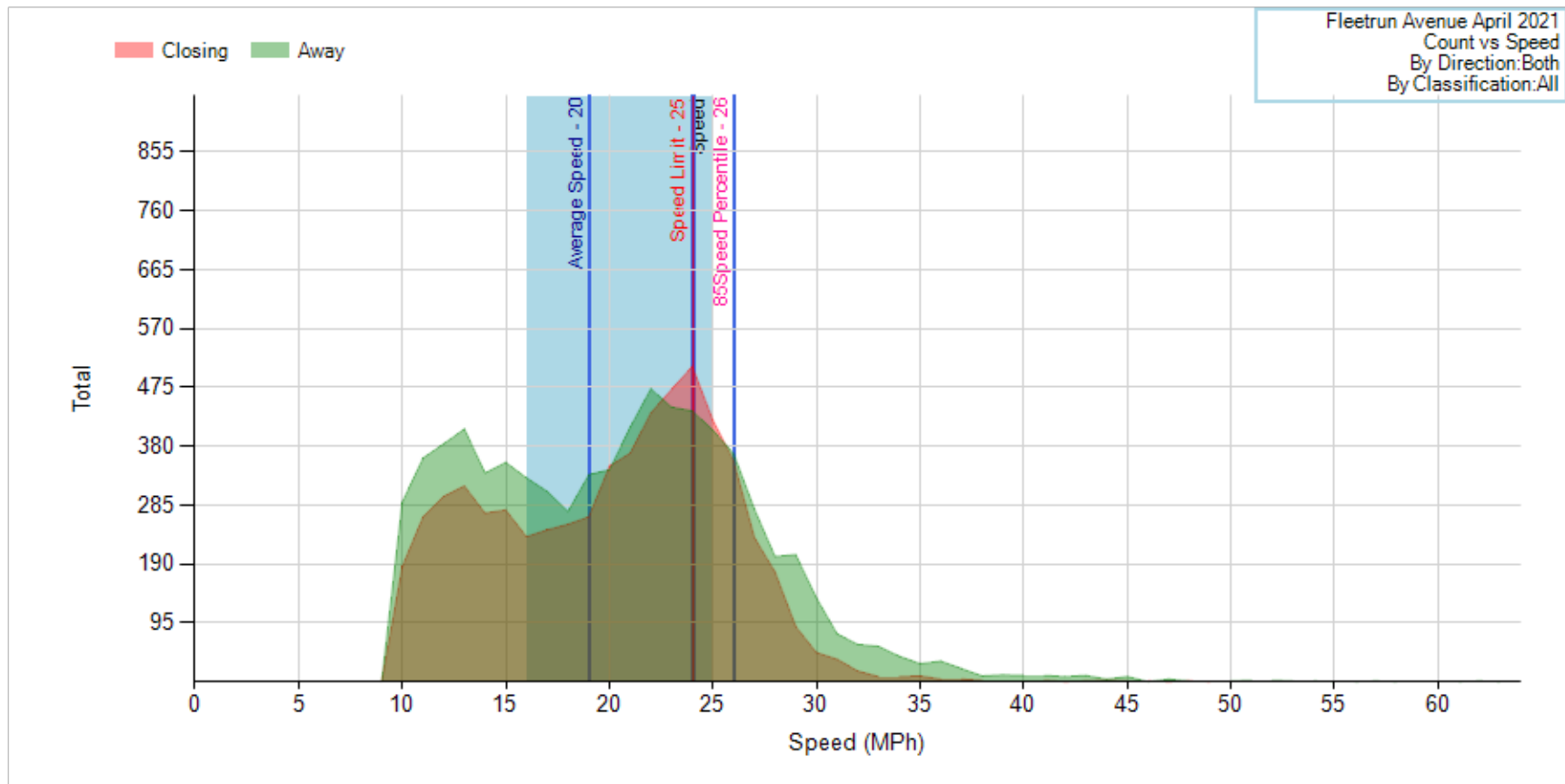
Survey Name	Fleetrان Avenue April 20	Speed Unit	Miles/Hour	Average Speed	20.2	MPH	Total Volume	13655	100%
Start Date	2021-04-15	Speed Limit	25	Max Speed	62	MPH	Over Limit Count	2595	19.0%
Stop Date	2021-04-30			Min Speed	10	MPH	Under Limit Count	11060	81.0%
				85th Percentile	26	MPH	Over Threshold Count	199	1%
				10 MPH Pace	16 - 25	MPH	In Pace Count	6747	49.4%



# GAHANNA DIVISION OF POLICE FLEETRAN AVENUE APRIL 2021 SPEED SURVEY



Count vs. Speed



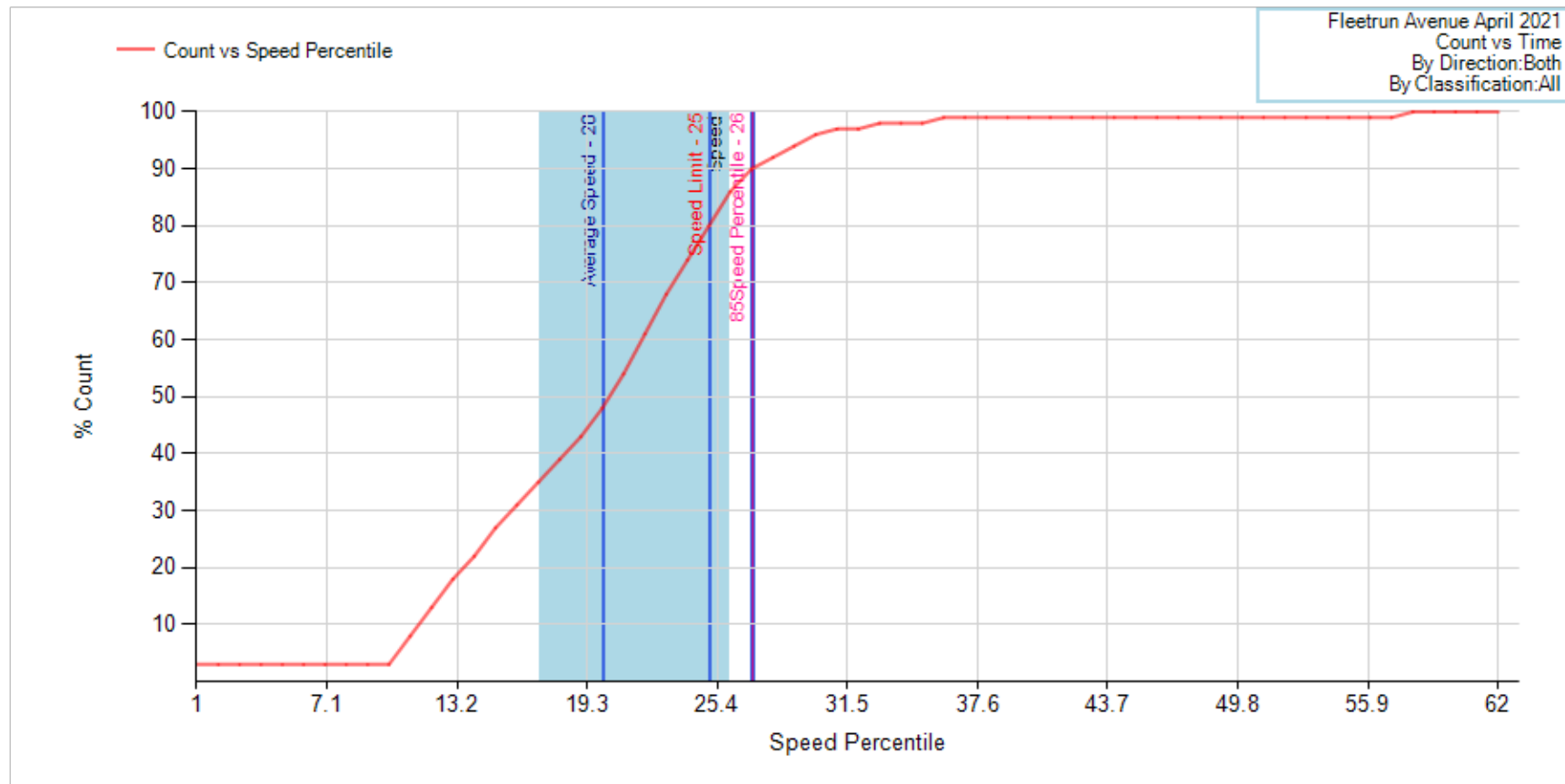
Survey Name	Fleetrun Avenue April 20	Speed Unit	Miles/Hour	Average Speed	20.2	MPH	Total Volume	13655	100%
Start Date	2021-04-15	Speed Limit	25	Max Speed	62	MPH	Over Limit Count	2595	19.0%
Stop Date	2021-04-30			Min Speed	10	MPH	Under Limit Count	11060	81.0%
				85th Percentile	26	MPH	Over Threshold Count	11060	1%
				10 MPH Pace	16 - 25	MPH	In Pace Count	6747	49.4%



# GAHANNA DIVISION OF POLICE FLEETRAN AVENUE APRIL 2021 SPEED SURVEY



Percentile Chart



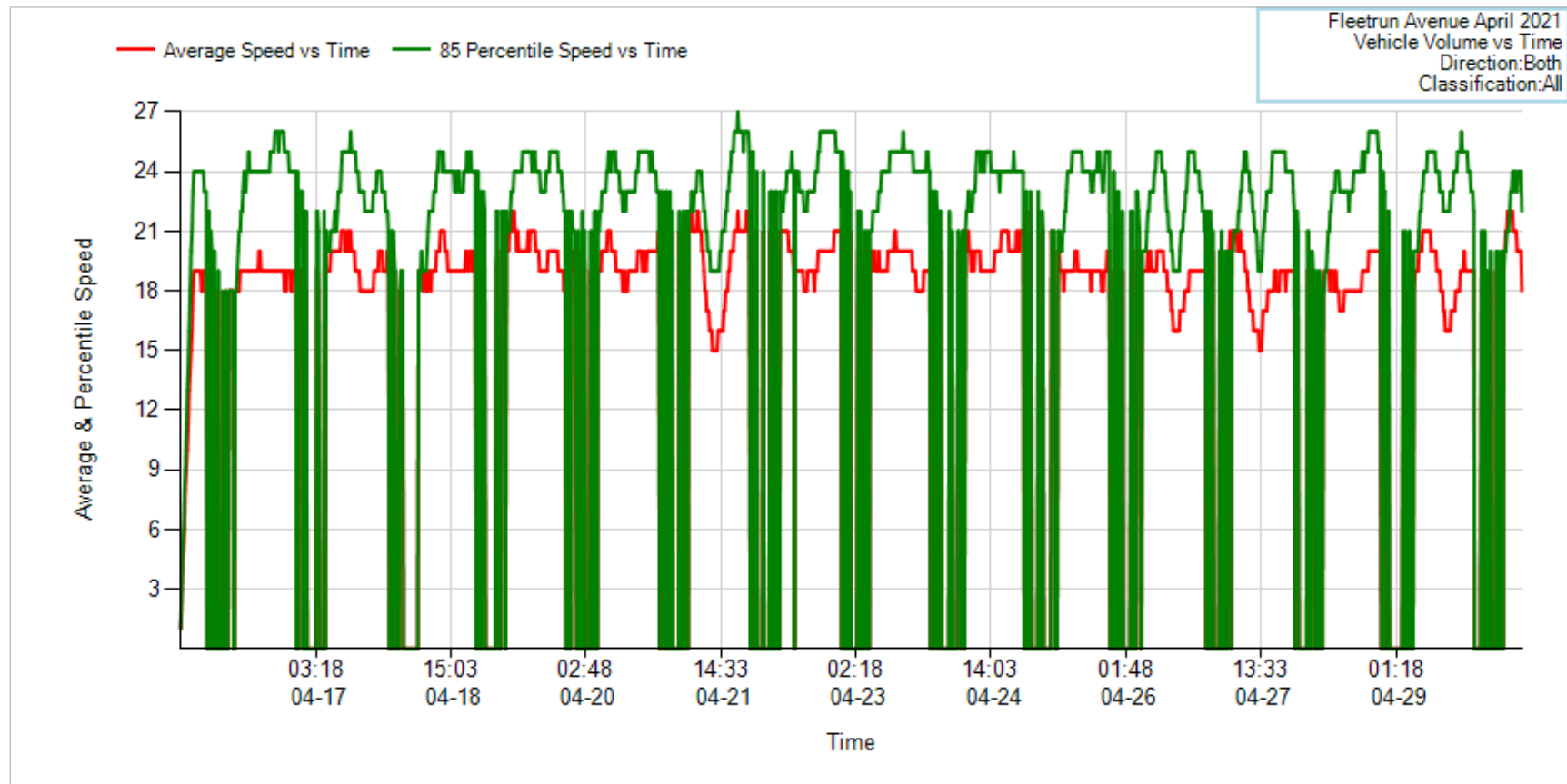
Survey Name	Fleetrان Avenue April 20	Speed Unit	Miles/Hour	Average Speed	20.2	MPH	Total Volume	13655	100%
Start Date	2021-04-15	Speed Limit	25	Max Speed	62	MPH	Over Limit Count	2595	19.0%
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				10 MPH Pace	16 - 25	MPH	In Pace Count	6747	49.4%



# GAHANNA DIVISION OF POLICE FLEETRAN AVENUE APRIL 2021 SPEED SURVEY



Average Speed vs. Time



Survey Name	Fleetrans Avenue April 20	Speed Unit	Miles/Hour	Average Speed	20.2	MPH	Total Volume	13655	100%
Start Date	2021-04-15	Speed Limit	25	Max Speed	62	MPH	Over Limit Count	2595	19.0%
Stop Date	2021-04-30			Min Speed	10	MPH	Under Limit Count	11060	81.0%
				85th Percentile	26	MPH	Over Threshold Count	11060	1%
				10 MPH Pace	16 - 25	MPH	In Pace Count	6747	49.4%

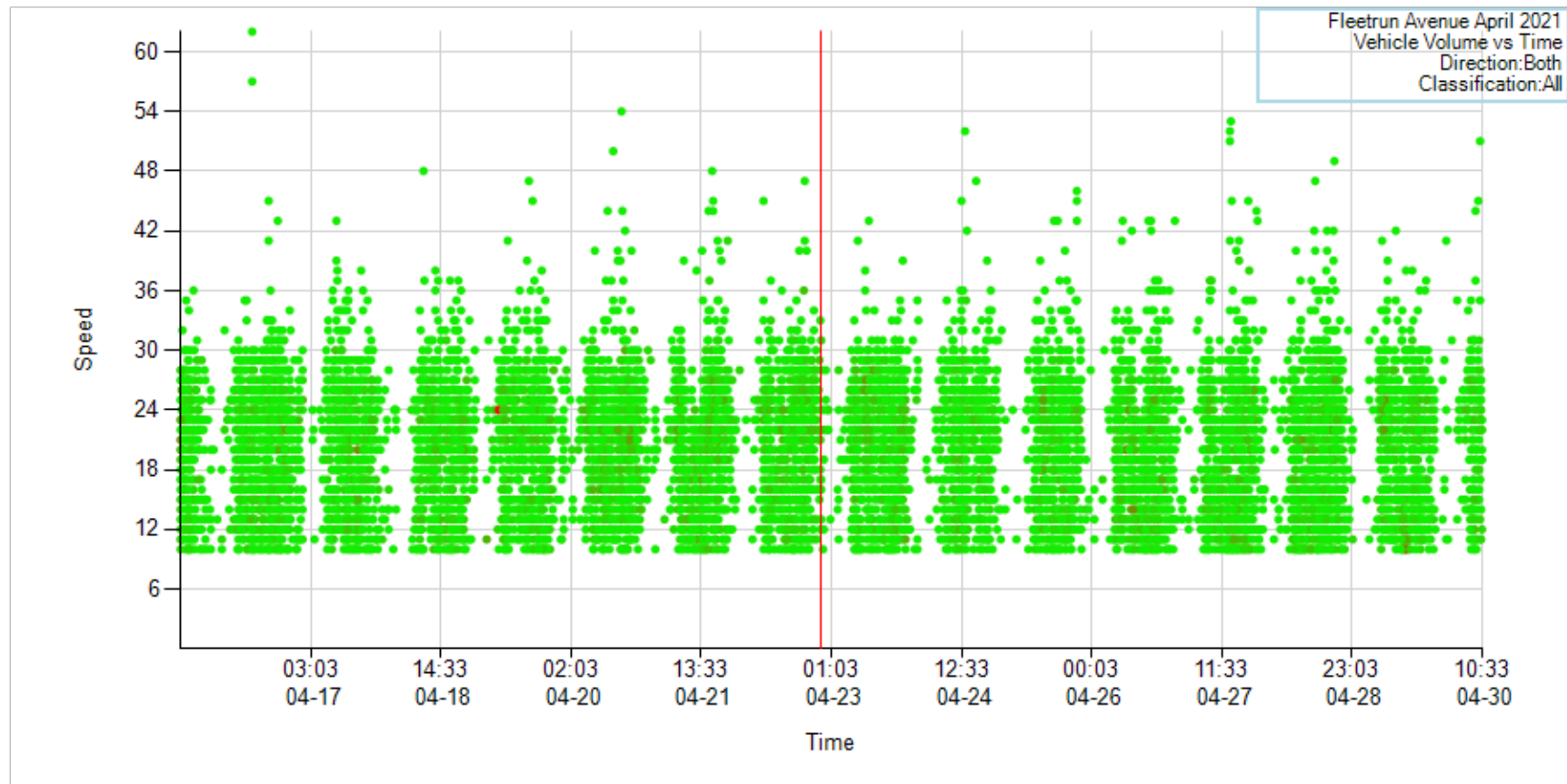




# GAHANNA DIVISION OF POLICE FLEETRAN AVENUE APRIL 2021 SPEED SURVEY



Speed vs. Time Bubble Chart



Survey Name	Fleetrun Avenue April 20	Speed Unit	Miles/Hour	Average Speed	20.2	MPH	Total Volume	13655	100%
Start Date	2021-04-15	Speed Limit	25	Max Speed	62	MPH	Over Limit Count	2595	19.0%
Stop Date	2021-04-30			Min Speed	10	MPH	Under Limit Count	11060	81.0%
				85th Percentile	26	MPH	Over Threshold Count	199	1%
				10 MPH Pace	16 - 25	MPH	In Pace Count	6747	49.4%

Survey Name	Fleetrun Avenue April 2021	Location	653 Fleetrun Avenue,Gahann...	Speed Unit	Miles/Hour
Start	2021-04-15 15:33	Traffic Direction	Undefined	Speed Limit	25
Stop	2021-04-30 10:39	Zone	Normal	Min Speed Threshold	10
Operator	000	Min Following Time	0.0	Max Speed Threshold	120
Survey Direction	Both	Time Resolution	1	Speed Resolution	1

Total Vehicle Connt	13655	100%	Average Speed	20.2	MPH	In Pace Count	6747	49%
Under Limit Count	11060	80%	Minimum Speed	10	MPH	10 mph Pace	16 - 25	MPH
Over Limit Count	2595	20%	Maximum Speed	62	MPH	Standard Deviation	6	MPH
10 Over Limit Count	199	1%	85Speed Percentile	26	MPH	Average Speed Over Limit	28.9	MPH



## Survey Report Quick Guide/Reference

### Over Threshold Count

The default threshold (amount over the posted speed limit) is 10 MPH. The **Over Threshold Count** is the number of vehicles traveling in excess of the selected threshold. For example, if the threshold is set at the 10 MPH default, this would indicate the number of vehicles (within the Total Volume) that were traveling at 10 MPH over the posted limited.

### Count vs. Time

The **Count vs Time Chart** shows the number of vehicles per unit of time traveling on the monitored roadway.

### Weekly Count vs. Time Chart

The **Weekly Count vs. Time Chart** mode shows the vehicle count per day over a 7-day period. If the survey period extends beyond one 7- day week, the values of each overlapped week day will be the average values for those overlapped week days.

### Count vs. Speed Chart

The **Count vs. Speed Chart** selection shows the total vehicle count for each speed group. The size of the speed group can be set by the operator (**Speed Resolution** selection in the **Analysis Control**).

### Percentile Chart

The **Percentile Chart** shows the cumulative percentage of vehicles that are at or below a given speed

### Average Speed vs. Time Chart

The **Average Speed vs. Time Chart** shows the average and the 85<sup>th</sup> Percentile Speeds of the vehicles over time.

### Speed vs. Time Bubble Chart

The **Speed vs. Time Bubble Chart** plots both vehicle speed and volume against time. The size of the bubble represents the number of cars at a particular speed group at a particular time. This chart is useful in showing traffic bunching.

### Average Speed

The average speed of all vehicles

### 85Speed Percentile

The speed at which 85% of the traffic was traveling **at or less than**. The 85<sup>th</sup> percentile is considered to be a key metric because it is generally considered to be representative of prevailing traffic conditions (the speed vehicles on the roadway are going most of the time).